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4	12732	((pressure near5 (release or relief or excess or excessive) or overpressure)) with pump	USPAT; US-PGPUB	2004/07/16 09:19
5	9	((pressure near5 (release or relief or excess or excessive) or overpressure)) with pump and ehb	USPAT; US-PGPUB	2004/07/16 10:41
6	9	((pressure near5 (release or relief or excess or excessive) or overpressure)) with pump and ehb	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 09:22
7	210	((pressure near5 (release or relief or excess or excessive) or overpressure)) near5 (electronically or electrically or electronic or electric) with pump	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 09:23
8	27	((pressure near5 (release or relief or excess or excessive) or overpressure)) near5 (electronically or electrically or electronic or electric) with pump same brak\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 09:47
9	1	6623088.URPN.	USPAT	2004/07/16 09:26
10	11	("3829170" "4043608" "5091857" "5197787" "5445445" "5938297" "6033038" "6033039" "6120112" "6196643" "6364429").PN.	USPAT	2004/07/16 09:26
11	6	((pressure near5 (release or relief or excess or excessive) or overpressure)) near5 (electronically or electrically or electronic or electric) with pump same (accumulator or reservoir) near4 pressure same brak\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 09:48
12	220	simultaneous\$4 with (open or opening) with (apply or application or inlet) adj2 valve with (release or outlet) adj3 valve	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 09:40
13	21	simultaneous\$4 with (open or opening) with (apply or application or inlet) adj2 valve with (release or outlet) adj3 valve same brak\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 09:40
14	339	((pressure near5 (release or relief or excess or excessive) or overpressure)) with pump same (accumulator or reservoir) near4 pressure same brak\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 09:48
15	31	((pressure near5 (release or relief or excess or excessive) or overpressure)) with pump same (accumulator or reservoir) near4 pressure same brak\$4 same limit\$4 near3 pressure	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:28
17	1	267/161.ccls. and deflect\$4 near4 peripher\$5	USPAT; US-PGPUB	2004/07/16 10:24
18	36	spring adj (disk or disc or plate) with deflect\$4 near4 (peripher\$5 or end)	USPAT; US-PGPUB	2004/07/16 09:59
19	42	spring adj (disk or disc or plate) with deflect\$4 near4 (peripher\$5 or end)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 09:59
20	1599210	spring near2j (disk or disc or plate) with deflect\$4 near4 (peripher\$5 or end)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:00
21	129	spring near2 (disk or disc or plate) with deflect\$4 near4 (peripher\$5 or end)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:04
23	6	spring near2 (disk or disc or plate) with deflect\$4 near4 (peripher\$5 or end) same (clutch or brak\$4)	USOCR	2004/07/16 10:01
22	14	spring near2 (disk or disc or plate) with deflect\$4 near4 (peripher\$5 or end) same (clutch or brak\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:02
24	14	spring near2 (disk or disc or plate) with deflect\$4 near4 (peripher\$5 or end) with both	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:03

25	1765	spring near2 (disk or disc or plate) with deflect\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:05
26	51	spring near2 (disk or disc or plate) with deflect\$4 with clutch	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:06
27	2	spring near2 (disk or disc or plate) with ends! near4 deflect\$4 with clutch	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:08
28	4	spring near2 (disk or disc or plate) with deflect\$4 with clutch with inner with outer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:32
29	0	spring near2 (disk or disc or plate) with deflect\$4 with clutch with inner with outer near5 deflect\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:10
30	2	spring near2 (disk or disc or plate) with deflect\$4 with clutch with inner with inner near5 deflect\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:10
31	10	(US-5088584-\$ or US-5088583-\$ or US-4949829-\$ or US-4936421-\$ or US-4542813-\$ or US-3838755-\$ or US-4375253-\$ or US-4154325-\$ or US-3666062-\$).did. or (US-20040069589-\$).did.	USPAT; US-PGPUB	2004/07/16 10:15
32	2	(US-3054491-\$ or US-2399886-\$).did.	USOCR	2004/07/16 10:15
33	25	butler.xp. and 188/322.15.ccls. and 267/\$.ccls.	USPAT; US-PGPUB	2004/07/16 10:16
34	2	butler.xp. and 188/322.15.ccls. and piston with belleville	USPAT; US-PGPUB	2004/07/16 10:16
35	74	butler.xp. and 188/322.15.ccls.	USPAT; US-PGPUB	2004/07/16 10:16
36	14	("2060590" "2159289" "3199636" "3256961" "3312312" "3430648" "3605801" "3621951" "3747714" "3791407" "3845782" "4060155" "4088207" "4899855").PN.	USPAT	2004/07/16 10:17
37	13	4972929.URPN.	USPAT	2004/07/16 10:18
38	0	(controllable with (pressure near5 (release or relief or excess or excessive) or overpressure)) with pump same (accumulator or reservoir) near4 pressure same brak\$4 same limit\$4 near3 pressure	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:28
39	6	(controllable with (pressure near5 (release or relief or excess or excessive) or overpressure)) with pump same (accumulator or reservoir) near4 pressure same brak\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:34
40	137	(controllable adj4 (release or relief)) adj valve	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:30
41	34	(controllable adj4 (release or relief)) adj valve same pump	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:30
42	49	spring near2 (disk or disc or plate) with deflect\$4 with inner with outer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:32
43	14	spring near2 (disk or disc or plate) with deflect\$4 with inner with outer same (clutch or brake or friction\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:32
44	37	((controllable or electric\$4 or electronic\$4) with (pressure near5 (release or relief or excess or excessive) or overpressure)) with valve with pump same (accumulator or reservoir) near4 pressure same brak\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:39

45	43	((controllable or electric\$4 or electronic\$4) with (pressure near5 (release or relief or excess or excessive) or overpressure)) with valve same pump same (accumulator or reservoir) near4 pressure same brak\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:40
46	6	((controllable or electric\$4 or electronic\$4) with (pressure near5 (release or relief or excess or excessive) or overpressure)) with valve same pump same (accumulator or reservoir) near4 pressure same brak\$4) not (((controllable or electric\$4 or electronic\$4) with (pressure near5 (release or relief or excess or excessive) or overpressure)) with valve with pump same (accumulator or reservoir) near4 pressure same brak\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 10:40
47	9	((pressure near5 (release or relief or excess or excessive) or overpressure)) with pump and ehb	USPAT; US-PGPUB	2004/07/16 10:42
48	28	((pressure near5 (release or relief or excess or excessive) or overpressure)) with pump and kelsey\$.asn.	USPAT; US-PGPUB	2004/07/16 10:43
49	20	((pressure near5 (release or relief or excess or excessive) or overpressure)) with pump and electrohydraulic adj3 brak\$4	USPAT; US-PGPUB	2004/07/16 10:44

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50	215	(electric\$4 or electronic\$4) adj3 ((pressure adj3 (release or relief or excess or excessive) or overpressure))	USPAT; US-PGPUB	2004/07/16 10:49
51	6	(electric\$4 or electronic\$4) adj3 ((pressure adj3 (release or relief or excess or excessive) or overpressure)) same brak\$4	USPAT; US-PGPUB	2004/07/16 10:50
52	3	(electric\$4 or electronic\$4) adj3 ((pressure adj3 (release or relief or excess or excessive) or overpressure)) adj3 valve same brak\$4	USPAT; US-PGPUB	2004/07/16 10:51
54	0	(ehb or electrohydraulic adj brak\$4) same (accumulator or high adj4 reservoir) near4 pressure same (predetrmined or threshold) adj3 pressure with (equal or exceed or above or greater)	USPAT; US-PGPUB	2004/07/16 10:55
55	48	(ehb or electrohydraulic adj brak\$4) same (accumulator or high adj4 reservoir) near4 pressure	USPAT; US-PGPUB	2004/07/16 10:55
56	38	(ehb or electrohydraulic adj brak\$4) same (accumulator or high adj4 reservoir) near4 pressure same valve	USPAT; US-PGPUB	2004/07/16 11:02
57	11	("5000520" "5108265" "5584543" "5791745" "5927832" "6092878" "6203123" "6249736" "6367890" "6389349" "6446490").PN.	USPAT	2004/07/16 10:58
58	11	("4428623" "5544948" "5567021" "5727851" "5845976" "5941608" "5979999" "5992949" "6076897" "6158825" "6192685").PN.	USPAT	2004/07/16 11:00
59	2	(ehb or electrohydraulic adj brak\$4) same (accumulator or high adj4 reservoir) near4 pressure same valve same limit\$4 near3 pressure	USPAT; US-PGPUB	2004/07/16 11:03
60	8	(US-6446490-\$ or US-6389349-\$ or US-6367890-\$ or US-6249736-\$ or US-6203123-\$ or US-5927832-\$ or US-5791745-\$ or US-6402265-\$).did.	USPAT	2004/07/16 11:04
-	3	("20030111898" "5941608" "6189982").PN.	USPAT; US-PGPUB	2004/07/16 08:08
-	547	KELSEY-HAYES.asn. or KELSEYHAYES.asn. (KELSEY.asn. and HAYES.asn.)	USPAT; US-PGPUB	2004/07/16 08:12
-	1255	KELSEY-HAYES.asn. or KELSEYHAYES.asn. (KELSEY.asn. and HAYES.asn.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 08:12
-	5	Zheng.in. and Milot.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 08:13
-	0	(Zheng.in. and Milot.in.) and (pressure adj relief or overpressure)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 08:14
-	45	(KELSEY-HAYES.asn. or KELSEYHAYES.asn. (KELSEY.asn. and HAYES.asn.)) and (pressure adj relief or overpressure)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 08:56

-	148	("6360592" "6398319" "6634221" "6634722" "6692088" "6226586" "6226586" "6093003" "6113365" "6135735" "6312061" "6375473" "6582030" "6588857" "6705683" "6161907" "6345871" "6010198" "6164731" "4856852" "4428468" "4538641" "4372408" "4438780" "4778227" "4307916" "4307631" "4308893" "4324320" "4407328" "4467900" "4553787" "4571008" "4609230" "4907842" "4993781" "5180216" "5372409" "5549366" "6024419" "4260199" "4316640" "4325581" "4407547" "4431091" "4442671" "4516400" "4547022" "4575160" "4593954").pn. ("4834469" "4950038" "4957331" "5219210" "5362138" "5403078" "5538331" "5575543" "5579807" "5767397" "5823636" "5895099" "5908983" "5927825" "5967625" "6082831" "6106078" "6183051" "6213572" "6213573" "3862781" "3815961"	USPAT; US-PGPUB	2004/07/16 09:11
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PLUS 7/16/04

Butler, Douglas

From: PLUS
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10721308_LIST.bt



10721308_WEST.bt



10721308_EAST.bt



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10721308_CLS.bt



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10721308_CLS

Most Frequently Occurring Classifications of Patents Returned
From A Search of 10721308 on March 25, 2004

Original Classifications

6 303/3
6 701/70
5 303/113.2
5 303/155
5 303/7
4 303/119.2
3 73/121
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3 303/115.2
3 303/116.1
3 303/117.1
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3 303/9.67
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Cross-Reference Classifications

18 303/15
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 2 303/89
 2 303/9.61
 2 303/9.74
 2 303/901
 2 303/DIG 9
 2 701/110
 2 701/70

2 701/83

Combined Classifications

20 303/15
17 303/20
12 303/3
10 303/113.2
10 303/119.2
8 303/10
8 303/116.1
8 303/116.2
8 701/70
7 303/113.4
7 303/113.5
7 303/115.2
7 303/155
6 303/116.4
6 303/117.1
6 303/7
6 303/71
6 303/900
5 180/197
5 192/13R
5 303/113.1
5 303/115.4
5 303/50
5 303/52
5 303/68
5 303/9.61
4 188/181A
4 188/345
4 188/349
4 192/12C
4 303/158
4 303/2
4 303/9.62
4 303/DIG 4
3 60/581
3 73/121
3 73/129
3 91/434
3 137/596.14
3 137/625.6
3 180/6.2
3 188/195
3 188/352
3 188/DIG 2
3 246/182B
3 303/11
3 303/114.1
3 303/118.1
3 303/119.1
3 303/119.3
3 303/13
3 303/22.1
3 303/40
3 303/61
3 303/84.1
3 303/9

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3 303/9.63
3 303/9.67
3 303/9.68
3 303/9.69
3 303/9.74
3 303/9.75
3 303/DIG 10
3 303/DIG 3
2 60/533
2 60/545
2 60/589
2 60/591
2 73/39
2 137/596.18
2 137/625.68
2 137/625.69
2 137/627.5
2 188/151A
2 188/170
2 188/181R
2 188/264D
2 188/264F
2 188/344
2 188/71.6
2 188/72.1
2 188/72.4
2 188/DIG 1
2 192/85AA
2 244/111
2 246/169R
2 303/1
2 303/114.3
2 303/115.6
2 303/122.03
2 303/122.1
2 303/126
2 303/127
2 303/186
2 303/22.8
2 303/28
2 303/6.01
2 303/89
2 303/9.76
2 303/901
2 303/DIG 9
2 477/130
2 701/110
2 701/83

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Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10721308 on March 25, 2004

20	303/15	(2 OR, 18 XR)
	Class 303 :	FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
	303/13	MULTIPLE CONTROL
	303/15	.Fluid and electric
17	303/20	(3 OR, 14 XR)
	Class 303 :	FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
	303/20	ELECTRIC CONTROL
12	303/3	(6 OR, 6 XR)
	Class 303 :	FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
	303/2	MULTIPLE SYSTEMS
	303/3	.Fluid pressure and electric
10	303/113.2	(5 OR, 5 XR)
	Class 303 :	FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
	303/121	SPEED-CONTROLLED
	303/113.1	.Having a valve system responsive to a wheel lock signal
	303/113.2	..With traction control
10	303/119.2	(4 OR, 6 XR)
	Class 303 :	FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
	303/121	SPEED-CONTROLLED
	303/113.1	.Having a valve system responsive to a wheel lock signal
	303/119.1	..System controlled by solenoid valve
	303/119.2	...System solenoid valve detail
8	303/10	(1 OR, 7 XR)
	Class 303 :	FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
	303/10	WITH PUMP
8	303/116.1	(3 OR, 5 XR)
	Class 303 :	FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
	303/121	SPEED-CONTROLLED
	303/113.1	.Having a valve system responsive to a wheel lock signal
	303/116.1	..Including pump with system solenoid valve
8	303/116.2	(2 OR, 6 XR)
	Class 303 :	FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
	303/121	SPEED-CONTROLLED
	303/113.1	.Having a valve system responsive to a wheel lock signal
	303/116.1	..Including pump with system solenoid valve
	303/116.2	...Having pressure line isolated from master cylinder line
8	701/70	(6 OR, 2 XR)
	Class 701 :	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/70	.Indication or control of braking,

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acceleration, or deceleration

- 7 303/113.4 (0 OR, 7 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/113.1 .Having a valve system responsive to a wheel
lock signal
303/113.4 ..Including a stroke sensor
- 7 303/113.5 (1 OR, 6 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/113.1 .Having a valve system responsive to a wheel
lock signal
303/113.5 ..With system apportioning control
- 7 303/115.2 (3 OR, 4 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/113.1 .Having a valve system responsive to a wheel
lock signal
303/115.1 ..System controlled by expansible chamber type
modulator
303/115.2 ...Having electric control
- 7 303/155 (5 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/155 .Braking pressure demand or braking force
desire
- 6 303/116.4 (2 OR, 4 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/113.1 .Having a valve system responsive to a wheel
lock signal
303/116.4 ..System pump structure detail
- 6 303/117.1 (3 OR, 3 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/113.1 .Having a valve system responsive to a wheel
lock signal
303/117.1 ..Spool valve
- 6 303/7 (5 OR, 1 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/5 MULTIPLE FLUID-RECEIVING DEVICES
303/6.01 .Multiple motors
303/7 ..Sectional train
- 6 303/71 (0 OR, 6 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/50 MOTORMAN'S VALVES
303/68 .Motor
303/71 ..Fluid-pressure retracting
- 6 303/900 (0 OR, 6 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS

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303/900 ABS THROTTLE CONTROL

- 5 180/197 (0 OR, 5 XR)
 Class 180 : MOTOR VEHICLES
 180/197 WITH MEANS FOR DETECTING WHEEL SLIP DURING
 VEHICLE ACCELERATION AND CONTROLLING IT BY REDUCING
 APPLICATION OF POWER TO WHEEL
- 5 192/13R (2 OR, 3 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/12R CLUTCH AND BRAKE
 192/13R .Vehicle type
- 5 303/113.1 (3 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/113.1 .Having a valve system responsive to a wheel
 lock signal
- 5 303/115.4 (1 OR, 4 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/113.1 .Having a valve system responsive to a wheel
 lock signal
 303/115.1 ..System controlled by expansible chamber type
 modulator
 303/115.4 ...Having pump pressure control
- 5 303/50 (1 OR, 4 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/50 MOTORMAN'S VALVES
- 5 303/52 (2 OR, 3 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/50 MOTORMAN'S VALVES
 303/52 .Multiple motors
- 5 303/68 (0 OR, 5 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/50 MOTORMAN'S VALVES
 303/68 .Motor
- 5 303/9.61 (3 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 303/6.01 .Multiple motors
 303/9.61 ..Separate and simultaneous control
- 4 188/181A (0 OR, 4 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/174 .Weight
 188/180 ..Regulators
 188/181R ...Vehicle
 188/181AAcceleration responsive
- 4 188/345 (0 OR, 4 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER

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- 188/151R .Fluid pressure
- 188/152 ..Road vehicle
- 188/345 ...With multiple master cylinders
- 4 188/349 (0 OR, 4 XR)
 - Class 188 : BRAKES
 - 188/381 FRICTIONAL VIBRATION DAMPER
 - 188/151R .Fluid pressure
 - 188/152 ..Road vehicle
 - 188/349 ...With front rear brake apportioner
- 4 192/12C (0 OR, 4 XR)
 - Class 192 : CLUTCHES AND POWER-STOP CONTROL
 - 192/12R CLUTCH AND BRAKE
 - 192/12C .Fluid operator
- 4 303/158 (2 OR, 2 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/121 SPEED-CONTROLLED
 - 303/158 .Pressure reapply control
- 4 303/2 (1 OR, 3 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/2 MULTIPLE SYSTEMS
- 4 303/9.62 (3 OR, 1 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 - 303/6.01 .Multiple motors
 - 303/9.62 ..Apportioning control
- 4 303/DIG 4 (0 OR, 4 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/DIG 2 BRAKE CONTROL BY PRESSURE COMPARISON
 - 303/DIG 3 .Electrical pressure sensor
 - 303/DIG 4 ..Pressure signal used in electrical speed controlled braking circuit
- 3 60/581 (0 OR, 3 XR)
 - Class 060 : POWER PLANTS
 - 60/325 PRESSURE FLUID SOURCE AND MOTOR
 - 60/533 .Pulsator
 - 60/581 ..Plural structurally related master pistons, cylinders or pulsator circuits
- 3 73/121 (3 OR, 0 XR)
 - Class 073 : MEASURING AND TESTING
 - 73/121 BRAKE TESTING
- 3 73/129 (2 OR, 1 XR)
 - Class 073 : MEASURING AND TESTING
 - 73/121 BRAKE TESTING
 - 73/129 .Vehicle installation
- 3 91/434 (0 OR, 3 XR)
 - Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
 - 91/418 WITH MOTIVE FLUID VALVE
 - 91/433 .Both inlet and exhaust controlled by motive fluid pressure in supply line or chamber

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- 91/434 ..With manual valve actuating means responsive
 to motive fluid pressure (e.g., "feel")
- 3 137/596.14 (0 OR, 3 XR)
 Class 137 : FLUID HANDLING
 137/561R SYSTEMS
 137/596 ..Supply and exhaust
 137/596.14 ..Pilot-actuated
- 3 137/625.6 (2 OR, 1 XR)
 Class 137 : FLUID HANDLING
 137/561R SYSTEMS
 137/625 ..Multi-way valve unit
 137/625.2 ..Supply and exhaust
 137/625.6 ...Pilot-actuated
- 3 180/6.2 (1 OR, 2 XR)
 Class 180 : MOTOR VEHICLES
 180/6.2 STEERING BY DRIVING
- 3 188/195 (1 OR, 2 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/195 ..Load
- 3 188/352 (1 OR, 2 XR)
 Class 188 : BRAKES
 188/381 FRICTIONAL VIBRATION DAMPER
 188/151R ..Fluid pressure
 188/152 ..Road vehicle
 188/352 ...With bleeding or filling device
- 3 188/DIG 2 (0 OR, 3 XR)
 Class 188 : BRAKES
 188/DIG 2 HILL HOLDER
- 3 246/182B (0 OR, 3 XR)
 Class 246 : RAILWAY SWITCHES AND SIGNALS
 246/167R CAB SIGNAL OR TRAIN CONTROL
 246/182R ..Speed-control systems
 246/182B ..Automatic vehicle-carried braking
- 3 303/11 (1 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/10 WITH PUMP
 303/11 ..Pressure control
- 3 303/114.1 (1 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/113.1 ..Having a valve system responsive to a wheel
 lock signal
 303/114.1 ..Including hydraulic power booster
- 3 303/118.1 (0 OR, 3 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/113.1 ..Having a valve system responsive to a wheel
 lock signal

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- 303/118.1 ..Pneumatic (relay or motorman) type
- 3 303/119.1 (1 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/113.1 .Having a valve system responsive to a wheel
 lock signal
 303/119.1 ..System controlled by solenoid valve
- 3 303/119.3 (2 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/113.1 .Having a valve system responsive to a wheel
 lock signal
 303/119.1 ..System controlled by solenoid valve
 303/119.3 ...Housing for plural solenoids
- 3 303/13 (1 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/13 MULTIPLE CONTROL
- 3 303/22.1 (1 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/22.1 LOAD CONTROL
- 3 303/40 (0 OR, 3 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/28 AUTOMATIC
 303/40 .Application valve
- 3 303/61 (1 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/50 MOTORMAN'S VALVES
 303/61 .Intermittent
- 3 303/84.1 (0 OR, 3 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/84.1 FLOW RETARDER
- 3 303/9 (0 OR, 3 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 303/6.01 .Multiple motors
 303/9 ..Supplementary in emergency
- 3 303/9.63 (2 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 303/6.01 .Multiple motors
 303/9.62 ..Apportioning control
 303/9.63 ...Failure responsive
- 3 303/9.67 (3 OR, 0 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 303/6.01 .Multiple motors
 303/9.62 ..Apportioning control
 303/9.67 ...Inertia

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- 3 303/9.68 (2 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 303/6.01 .Multiple motors
 303/9.62 ..Apportioning control
 303/9.67 ...Inertia
 303/9.68Inertia weight
- 3 303/9.69 (2 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 303/6.01 .Multiple motors
 303/9.62 ..Apportioning control
 303/9.69 ...Load
- 3 303/9.74 (1 OR, 2 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 303/6.01 .Multiple motors
 303/9.62 ..Apportioning control
 303/9.73 ...Having significant output feature
 303/9.74Multiple outlets
- 3 303/9.75 (0 OR, 3 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 303/6.01 .Multiple motors
 303/9.62 ..Apportioning control
 303/9.75 ...Detail
- 3 303/DIG 10 (0 OR, 3 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/DIG 10 VALVE BLOCK INTEGRATING PUMP, VALVES, SOLENOID,
 ACCUMULATOR, ETC.
- 3 303/DIG 3 (0 OR, 3 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/DIG 2 BRAKE CONTROL BY PRESSURE COMPARISON
 303/DIG 3 .Electrical pressure sensor
- 2 60/533 (2 OR, 0 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
- 2 60/545 (0 OR, 2 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/545 ..Having electricity or magnetically operated
 structure
- 2 60/589 (0 OR, 2 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/533 .Pulsator
 60/585 ..Holder for reserve liquid feeds master
 60/589 ...Master piston or its actuator mechanically
 operates valve between holder and master cylinder

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- 2 60/591 (0 OR, 2 XR)
 - Class 060 : POWER PLANTS
 - 60/325 PRESSURE FLUID SOURCE AND MOTOR
 - 60/533 .Pulsator
 - 60/591 ..Having valve, director, or restrictor in
pulse fluid flow path

- 2 73/39 (0 OR, 2 XR)
 - Class 073 : MEASURING AND TESTING
 - 73/37 WITH FLUID PRESSURE
 - 73/39 .Fluid pressure brake system or unit

- 2 137/596.18 (0 OR, 2 XR)
 - Class 137 : FLUID HANDLING
 - 137/561R SYSTEMS
 - 137/596 .Supply and exhaust
 - 137/596.17 ..Motor
 - 137/596.18 ...Fluid motor

- 2 137/625.68 (0 OR, 2 XR)
 - Class 137 : FLUID HANDLING
 - 137/561R SYSTEMS
 - 137/625 .Multi-way valve unit
 - 137/625.2 ..Supply and exhaust
 - 137/625.25 ...Reciprocating valve
 - 137/625.67Piston valve
 - 137/625.68With internal flow passage

- 2 137/625.69 (1 OR, 1 XR)
 - Class 137 : FLUID HANDLING
 - 137/561R SYSTEMS
 - 137/625 .Multi-way valve unit
 - 137/625.2 ..Supply and exhaust
 - 137/625.25 ...Reciprocating valve
 - 137/625.67Piston valve
 - 137/625.69With annular passage (e.g., spool)

- 2 137/627.5 (0 OR, 2 XR)
 - Class 137 : FLUID HANDLING
 - 137/561R SYSTEMS
 - 137/627.5 .Sequentially closing and opening alternately
seating flow controllers

- 2 188/151A (0 OR, 2 XR)
 - Class 188 : BRAKES
 - 188/381 FRICTIONAL VIBRATION DAMPER
 - 188/151R .Fluid pressure
 - 188/151A ..Safety devices

- 2 188/170 (0 OR, 2 XR)
 - Class 188 : BRAKES
 - 188/381 FRICTIONAL VIBRATION DAMPER
 - 188/166 .Spring
 - 188/170 ..Fluid-pressure release

- 2 188/181R (0 OR, 2 XR)
 - Class 188 : BRAKES
 - 188/381 FRICTIONAL VIBRATION DAMPER

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- 188/174 .Weight
- 188/180 ..Regulators
- 188/181R ...Vehicle

- 2 188/264D (1 OR, 1 XR)
 - Class 188 : BRAKES
 - 188/381 FRICTIONAL VIBRATION DAMPER
 - 188/264R .Cooling and lubricating
 - 188/264D ..Liquid cool

- 2 188/264F (1 OR, 1 XR)
 - Class 188 : BRAKES
 - 188/381 FRICTIONAL VIBRATION DAMPER
 - 188/264R .Cooling and lubricating
 - 188/264F ..Operating fluid cooling

- 2 188/344 (0 OR, 2 XR)
 - Class 188 : BRAKES
 - 188/381 FRICTIONAL VIBRATION DAMPER
 - 188/151R .Fluid pressure
 - 188/152 ..Road vehicle
 - 188/344 ...Velocipede

- 2 188/71.6 (0 OR, 2 XR)
 - Class 188 : BRAKES
 - 188/67 ROD
 - 188/71.1 .Axially movable brake element or housing therefor
 - 188/71.6 ..With means for cooling brake

- 2 188/72.1 (0 OR, 2 XR)
 - Class 188 : BRAKES
 - 188/67 ROD
 - 188/71.1 .Axially movable brake element or housing therefor
 - 188/72.1 ..With means for actuating brake element

- 2 188/72.4 (0 OR, 2 XR)
 - Class 188 : BRAKES
 - 188/67 ROD
 - 188/71.1 .Axially movable brake element or housing therefor
 - 188/72.1 ..With means for actuating brake element
 - 188/72.4 ...By fluid pressure piston

- 2 188/DIG 1 (0 OR, 2 XR)
 - Class 188 : BRAKES
 - 188/DIG 1 PANIC BRAKING

- 2 192/85AA (0 OR, 2 XR)
 - Class 192 : CLUTCHES AND POWER-STOP CONTROL
 - 192/30R CLUTCHES
 - 192/82R .Operators
 - 192/85R ..Fluid pressure
 - 192/85AA ...Axially engaging clamping rotating motor and clutch

- 2 244/111 (0 OR, 2 XR)
 - Class 244 : AERONAUTICS

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- 244/110R RETARDING AND RESTRAINING DEVICES
244/111 .Wheel brake arrangement
- 2 246/169R (0 OR, 2 XR)
Class 246 : RAILWAY SWITCHES AND SIGNALS
246/167R CAB SIGNAL OR TRAIN CONTROL
246/169R .Train defect
- 2 303/1 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/1 MISCELLANEOUS
- 2 303/114.3 (1 OR, 1 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/113.1 .Having a valve system responsive to a wheel
lock signal
303/114.3 ..Including pneumatic power booster
- 2 303/115.6 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/113.1 .Having a valve system responsive to a wheel
lock signal
303/115.1 ..System controlled by expansible chamber type
modulator
303/115.6 ...Including flywheel control (e.g., motorcycle
type)
- 2 303/122.03 (1 OR, 1 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/122 .With failure responsive means
303/122.03 ..Failure related to brake condition (e.g.,
wear, sensor or switch operation) with indicator
- 2 303/122.1 (1 OR, 1 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/122 .With failure responsive means
303/122.09 ..Pressure failure
303/122.1 ...With warning
- 2 303/126 (2 OR, 0 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/125 .Automatic braking including speed governor or
hydraulic retarder
303/126 ..Aircraft
- 2 303/127 (2 OR, 0 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/127 .Pneumatic
- 2 303/186 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/186 .Front-rear axle apportioning or speed

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difference

2 303/22.8 (1 OR, 1 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/22.1 LOAD CONTROL
303/22.8 .Detail

2 303/28 (1 OR, 1 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/28 AUTOMATIC

2 303/6.01 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/5 MULTIPLE FLUID-RECEIVING DEVICES
303/6.01 .Multiple motors

2 303/89 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/89 LOCKS

2 303/9.76 (2 OR, 0 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/5 MULTIPLE FLUID-RECEIVING DEVICES
303/6.01 .Multiple motors
303/9.76 ..Spring operated motor

2 303/901 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/901 ABS CHECK VALVE DETAIL

2 303/DIG 9 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/DIG 9 PLURAL PROCESSORS

2 477/130 (1 OR, 1 XR)
Class 477 : INTERRELATED POWER DELIVERY CONTROLS,
INCLUDING ENGINE CONTROL
477/34 TRANSMISSION CONTROL
477/115 .Transmission controlled by engine
477/121 ..By input manifold pressure or engine fuel
control
477/127 ...Shift valve control
477/130Plural shift valves

2 701/110 (0 OR, 2 XR)
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR
INDICATION
701/99 .With indicator or control of power plant
(e.g., performance)
701/101 ..Internal-combustion engine
701/102 ...Digital or programmed data processor
701/110Speed, acceleration, deceleration

2 701/83 (0 OR, 2 XR)
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR

10721308_CLSTITLES

INDICATION

701/70	.Indication or control of braking, acceleration, or deceleration
701/82	..Antispin, traction control, or drive slip control
701/83	...Control of brake pressure